

ABSTRACT

A metal back-attached phosphor screen comprises at least a phosphor layer (3) and a metal back layer (5) on an inner surface of a face plate (1), a first treatment layer (4) containing at least one kind of inorganic oxide such as SiO_2 , a silicon oxide containing an alkali metal such as Na, Al_2O_3 , TiO_2 , or ZrO_2 formed on the phosphor layer (3), and the metal back layer (5) formed thereon. A second treatment layer containing the aforementioned inorganic oxide can be formed on the metal back layer (5). A metal back-attached phosphor screen, when used in an image display device such as a FED, can not only inhibit the occurrence of abnormal discharge and improve withstand voltage characteristics but also can increase brightness.